TTP CYBER Software sustainability pANEL COMMENTS

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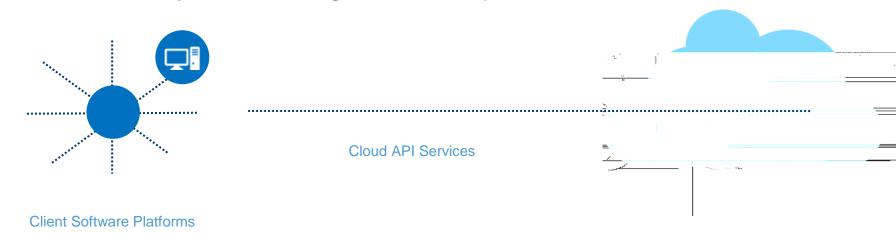
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Strained Silicon

Hi-K Metal Gate

Intel Software & Services Group

SSG enhances computing and connectivity for Intel Architecture across the software ecosystem and through our software products and services.

Cloud API Services

Client Software Platforms

intel Software

Intel contributes

ƒ Problem formulations

ƒ Industry insight

ƒ Researchers

ƒ Funding

ƒ Equipment

Intel

ƒ Accelerates adoption of the best results and pursues tech transfer from researchers to the innovation ecosystem

ƒ Provides summer internships and hires graduating students (a great form of TTP)

ƒ Evangelizes research results (another form of TTP)

Intel-NSF Partnership

In 2014 Intel and NSF co-authored a solicitation for proposals to research security for cyber-physical systems (CPS)

ƒ 2 grants for $1M/yr each for three years

The solicitation closed on October 31, 2014 with 9 proposals

The NSF review process identified four proposals for further review

In January 2015 NSF and Intel selected two proposals for funding

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Both programs launched in late Summer 2015 with dedicated Intel staff

‡ T

Success stories of software sustainability and TTP at the industry-academic boundary

XYZ (TTP to Intel and its customers)

ƒ Intel often works with faculty on foundational ideas, but later builds production software on its own regardless of how mature the academic software is

PlanetLab ÆGENI ÆSDN/NFV (TTP to academia, industry)

ƒ Intel contributed 6 full-time programmers and engineers to help build the initial PlanetLab software infrastructure

Lessons learned

Possibly interesting discussion points?

Industry structure insight is critical

‡   Health care, education, IOT, security
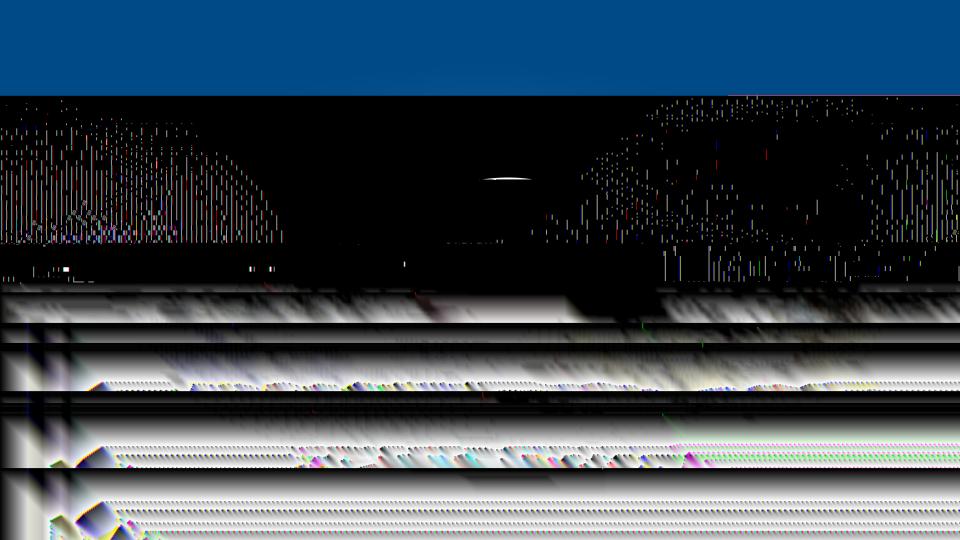
SBE context is critical

‡   Much security/privacy research is about technology, but the problem at its root is people

‡   There is an adversary with its own industry structure

‡   , W L V - D Q F W R Q D O U H T X L U H P H Q W ´ R Q P R V W S U R G X F W V

Open source transparency/security hypothesis

‡   Is open source the right mechanism for Cyber TTP independent of TTP?

Novel organizational approaches?

‡   So

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